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LABORATORY ANIMAL FACILITIES AND MANAGEMENT

SEARCH STRATEGY

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0001
Acute restraint device for rhesus monkeys.
LBASA. Robbins, D.D. ; Zwick, H.~Leedy, M.~Stearns, G. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Feb 1986. v. 36 (1). p. 68-70. ill. Includes references. (NAL Call No.: DNAL 410.9 P94).

0002
Air transportation for pets and other animals.
Fletch, A. Davie, Fla. : The Association, 1978 . Animal air transportation, a global industry : proceedings of the fourth annual International Meeting, Animal Air Transportation Association, November 6-9, 1978 Toronto, Ontario, Canada. / edited by A. Ann McWilliam. p. 4-10. (NAL Call No.: DNAL TL720.7.A5 1978).

0003
Alternatives to chronic restraint of nonhuman primates.
JAVMA. Morton, W.R. ; Knitter, G.H.~Smith, P.M.~Susor, T.G.~Schmitt, K. Schaumburg, Ill. : The Association. Journal of the American Veterinary Medical Association. Nov 15, 1987. v. 191 (10). p. 1282-1286. ill. Includes references. (NAL Call No.: DNAL 41.8 AM3).

0004
Alternatives to intensive husbandry systems : proceedings of a symposium held at Wye College, (University of London), Ashford, Kent, 13th, 14th, and 15th July, 1981. -.
Potters Bar, Hertfordshire The Universities Federation for Animal welfare 1981. 104 p. : ill. ; 21 cm. Includes bibliographies. (NAL Call No. HV4708.A4).

0005
Analysis of maternal effects on laboratory animals (Traits). Analyse des effets maternels chez les animaux de laboratoire. FRENCH.
Auran, T. ; Skjervold, H. Jouy-en-Josas, L'Institut. Bulletin technique Institut national de la recherche agronomique, Paris. Departement de genetique animale. 1979. 1979. (29/30). p. 115-131. ill. 11 ref. (NAL Call No.: QH431.I52).

0006
Animal boredom: is a scientific study of the subjective experiences of animals possible?.
Wemelsfelder, F. Boston : Martinus Nijhoff Publishers. Advances in animal welfare science 1984 (pub. 1985). p. 115-154. Includes references. (NAL Call No.: DNAL HV4701.A34).

0007
Animal census with off-the-shelf software.
Coons, D. : Haesemeyer, J. New York : Media Horizons. Lab animal. Mar 1986. v. 15 (2). p. 49-50. (NAL Call No.: DNAL QL55.A1L33).

0008
The animal enclosure--a microenvironment (Control for laboratory animals, housing).
Woods, J.E. Joliet, Ill., American Association for Laboratory Animal Science. Laboratory animal science. Apr 1980. v. 30 (2,pt.1). p. 407-413. ill. 29 ref. (NAL Call No.: 410.9 P94).

0009
Animal facility design: designing with use & re-use in mind.
Fisk, S.K. ; Lewis, W.H. New York : Media Horizons. Lab animal. Jan/Feb 1982. v. 11 (1). p. 38-39, 41. ill. Includes references. (NAL Call No.: DNAL QL55.A1L33).

0010
Animal health--from the user's point of view.
Wong, J.H. Davie, Fla. : The Association, 1978 . Animal air transportation, a global industry : proceedings of the fourth annual International Meeting, Animal Air Transportation Association, November 6-9, 1978 Toronto, Ontario, Canada / edited by A. Ann McWilliam. p. 111-113. (NAL Call No.: DNAL TL720.7.A5 1978).

0011
Animal house stock control based on bar-coded cage labels.
LBANA. Wootton, R. Essex : Laboratory Animal Science Association. Laboratory animals. Oct 1985. v. 19 (4). p. 359-367. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0012
Animal regulations: so far, so good.
SCIEA. Holden, C. Washington, D.C. : American Association for the Advancement of Science. Science. Nov 13, 1987. v. 238 (4829). p. 880-882. ill. (NAL Call No.: DNAL 470 SCI2).

0013
Animal research review in an industrial facility.
LBASA. Knauff, D.R. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. In the series analytic: Effective animal care and use committees / edited by F.B. Orlans, R.C. Simmonds, W.J. Dodds. Jan 1987. v. 37 (special issue). p. 129-131. Includes references. (NAL Call No.: DNAL 410.9 P94).

0014
The Animal Welfare Act and the needs of animals.
Washington, D.C. : Animal Welfare Institute, 1979. Comfortable quarters for laboratory animals. p. 7-11. ill. (NAL Call No.: DNAL SF91.A5 1979).

0015
Ankylosis of hock joints in group caged male B6C3F1 mice.
LBASA. Rao, G.N. ; Lindsey, J.R. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Aug 1988. v. 38 (4). p. 417-421. ill. Includes

references. (NAL Call No.: DNAL 410.9 P94).
Enlarged hock joints were observed during 1983 in B6C3F1 mice of chronic toxicity and carcinogenicity studies sponsored by the National Toxicology Program (NTP). Subsequently, approximately 9,500 B6C3F1 mice on 32 NTP chemical toxicity and carcinogenicity studies were evaluated for this condition by clinical examination. Group caged male B6C3F1 mice had thickening and reduced mobility of the hock joints at prevalences of 1.2% up to 6 months of age; 23% at 6 to 12 months of age; and 62% at 13 to 26 months of age. Group caged female B6C3F1 mice had a prevalence of 2% or less. Histologically, affected mice had periarticular exostoses on the bones of the hock joints, with formation of bony bridges around joints and deposition of new bone in joint spaces, resulting in partial or complete ankylosis. Individually caged male and female B6C3F1 mice were not affected. The cause of the ankylosis was not determined, but its occurrence in the NTP studies has been reduced by individual caging.

0016
Annotated bibliography on uncommonly used laboratory animals. mammals.
Fine, J. ; Quimby, F.W.~Greenhouse, D.D. Washington, D.C. : Institute of Laboratory Animal Resources, National Research Council, I.L.A.R. news. Literature review. Summer 1986. v. 29 (4). p. 3A-38A. ill. (NAL Call No.: DNAL QL55.A1143).

0017
The application of embryo transfer and cryopreservation to commercial laboratory animal breeding. Cryopreservation of mouse strains by a quick freezing method.
Dagnaes-Hansen, F. Dordrecht ; M. Nijhoff, 1988. New developments in biosciences : their implications for laboratory animal science : proceedings of the Third Symposium, Amsterdam, The Netherlands, 1-5 June 1987 / edited by Anton C. Beynen and Henk A. Solleveld. p. 375-378. Includes references. (NAL Call No.: DNAL QL55.F43 1987).

0018
The art of staffing and managing a clinical pathology laboratory.
Williams, E.R. New York : Media Horizons, Lab animal. Sept 1982. v. 11 (6). p. 53-55. Includes references. (NAL Call No.: DNAL QL55.A1L33).

0019
Assessment of discomfort in gallstone-bearing mice: a practical example of the problems encountered in an attempt to recognize discomfort in laboratory animals.
LBANA. Beynen, A.C. ; Baumans, V.~Bertens, A.P.M.J.~Havenaar, R.~Heeg, A.P.M.~Zutphen, L.F.M. van. Essex Laboratory Animal Science Association. Laboratory animals. Jan 1987. v. 21 (1). p. 35-42. ill. Includes references. (NAL Call No.: DNAL QL55.A1L33).

Abstract: In order to obtain practical experience on the recognition, assessment and evaluation of discomfort in laboratory animals, the degree of discomfort was studied in gallstone-free and gallstone-bearing mice. Out of nine parameters to which scores were assigned per individual mouse, only the response to palpation of the right hypochrondrium was found to score significantly higher in gallstone-bearing mice. That is, the incidence of squeaking and the magnitude of muscular contractions were significantly higher in these animals compared with the gallstone-free mice. The stance of the gallstone-bearing mice also tended to be abnormal, although the difference between gallstone-free and gallstone-bearing animals did not reach statistical significance. Although this study does not prove unequivocally that the induction of gallstones per se causes discomfort or pain in mice, we tentatively conclude that it does. We feel that this should be taken into account in any projected work in which gallstone induction in animals may occur. There was considerable between-assessor variation in the assignment of scores to the variables used to assess discomfort, including the response to palpation. It is concluded that the selection of parameters and the experience and/or attitude of the assessor are critically important when the magnitude of discomfort, if any, is assessed in experimental animals.

0020
Behavioral enrichment for primates: what are the options?.
Heath, S.J. Bethesda, Md. : The Center, Newsletter - Scientists Center for Animal Welfare. Spring 1987. v. 9 (1). p. 11-12. ill. Includes references. (NAL Call No.: DNAL QL55.N48).

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Behavioral patterns of Djungarian hamsters: an adaptive profile.
ALBVA. Sawrey, D.K. ; Baumgardner, D.J.~Campa, M.J.~Ferguson, B.~Hodges, A.W.~Dewsbury, D.A. Austin, Tex. : Psychonomic Societ, Animal learning & behavior. Aug 1984. v. 12 (3). p. 297-306. Includes references. (NAL Call No.: DNAL QL785.A725).

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A 'behavioral sink'.
Calhoun, J.B. New York : Hafner Pub. Co., 1968 [i.e. 1969 c1962. Roots of behavior : genetics, instinct, and socialization in animal behavior / by thirty-one authors; edited by Eugene L. Bliss. p. 295-315. ill. Includes references. (NAL Call No.: DNAL QL751.R69).

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Behaviour, housing and welfare of non-human primates.
Poole, T.B. Dordrecht ; M. Nijhoff, 1985. New developments in biosciences : their implications for laboratory animal science : proceedings of the Third Symposium, Amsterdam, The Nethrlands, 1-5 June 1987 / edited by Anton C.

Beynsen and Henk A. Solleveld. p. 231-237. Includes references. (NAL Call No.: DNAL QL55.F43 1987).

0024
Bibliography on administration in laboratory animal science /prepared by Douglas W. Windle for Committee on Laboratory Animal Technicians, American Association for Laboratory Animal Science.
Windle, Douglas W., 1942-. Cordova, TN : The Association, 1982.. iii, 18 leaves ; 28 cm. (NAL Call No.: DNAL Z7994.L3W5).

0025
Billion dollar price tag for new animal rules.
SCIEA. Holden, C. Washington, D.C. : American Association for the Advancement of Science. Science. Nov 4, 1988. v. 242 (4879). p. 662-663. (NAL Call No.: DNAL 470 SCI2).

0026
Biological effect of AC electric fields on small experimental animals. II: new exposure facility. Japanese.
Shigemitsu, T. ; Negishi, T.~Shiga, Y.~Nishiyama, F. (Abiko) : The Institute. Journal of the Central Research Institute of Electric Power Industry. Sept 1981. Sept 1981. (481010). 12 p. ill. Includes references. (NAL Call No.: S671.D38).

0027
Birth of a hemophilic dog colony.
Tinlin, S.J. ; Brosseau, L.D.~Giles, A.R.~Greenwood, R.~Greenwood, P.~Hoogendoorn, H. Stuttgart, W. Ger. : G. Fisher Verlag, 1985. The Contribution of laboratory animal science to the welfare of man and animals--past, present and future : 18th Symposium of ICLAS/CALAS, Vancouver, 1983 / editors: J. Archibald, J. Pitchfield, H.C. Rowsell. p. 127-131. ill. Includes references. (NAL Call No.: DNAL QL55.I55 1983).

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Breeding and handling small wild rodents: a method study.
LBANA. Wallace, M.E. ; Hudson, C.A. London : Laboratory Animals Ltd. Laboratory animals. Oct 1969. v. 3 (2). p. 107-117. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0029
Breeding and offspring rearing ability of C57BL/SJ dystrophic mice.
LBASA. Younger, L.E. ; Silverman, H. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Oct 1984. v. 34 (5). p. 471-474. Includes references. (NAL Call No.: DNAL 410.9 P94).

0030
Breeding and use of nonhuman primates in the USA.
Held, J.R. Washington, D.C. : Institute for the Study of Animal Problems. International journal for the study of animal problems. Jan/Feb 1981. v. 2 (1). p. 27-28, 29-37. Includes references. (NAL Call No.: DNAL HV4701.I49).

0031
A breeding colony of bushbabies.
Izard, M.K. ; Simons, E.L. New York : Media Horizons. Lab animal. Apr 1983. v. 12 (3). p. 12. Includes references. (NAL Call No.: DNAL QL55.A1L33).

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A breeding colony of cotton-top tamarins (Saguinus oedipus).
LBASA. Snowdon, C.T. ; Savage, A.~McConnell, P.B. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Oct 1985. v. 35 (5). p. 477-480. Includes references. (NAL Call No.: DNAL 410.9 P94).

0033
Breeding, housing and care of laboratory animals.
Solleveld, H.A. ; McAnulty, P.~Ford, J.~Peters, P.W.J.~Tesh, J. Amsterdam : Elsevier Science Publishers, 1986. Laboratory animals : laboratory animal models for domestic animal production / edited by E.J. Ruitenberg and P.W.J. Peters. Literature review. p. 1-46. ill. Includes references. (NAL Call No.: DNAL QL55.L28).

0034
Breeding macaques for research (Laboratory animals).
Golarz de Bourne, M.N. Pretoria. JournalSouth African Veterinary Association. Sept 1978. v. 49 (3). p. 185-188. ill. 8 ref. (NAL Call No.: 41.8 SO8).

0035
Breeding of wild-caught rodent Cricetidae Holochilus brasiliensis under laboratory conditions.
LBANA. Mello, D.A. London : Laboratory Animal Science Association. Laboratory animals. June 1986. v. 20 (3). p. 195-196. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0036
The breeding of Xenopus laevis on a large scale in the laboratory.
Davys, J.S. Sussex : The Institute of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Dec 1986. v. 37 (3). p. 217-223. ill. (NAL Call No.: DNAL QL55.I5).

0037
Breeding primates in zoos.
King, N.E. ; Mitchell, G. New York : A.R. Liss, 1986-. Comparative primate biology. Volume 2, Part B: Behavior, cognition, and motivation / edited by G. Mitchell and J. Erwin.~ Literature review. v. 2, pt. B p. 219-261. Includes references. (NAL Call No.: DNAL QL737.P9C56).

0038
Breeding program and population standards of the Gottingen miniature swine.
Glodek, P. New York : Plenum Press, c1986. Swine in biomedical research / edited by M.E. Tumbleson. Proceedings of a conference on Swine in Biomedical Research, June 17-20, 1985, Columbia, Missouri. p. 23-37. Includes references. (NAL Call No.: DNAL RB125.C68 1985).

0039
Breeding the Chinese hamster (Cricetulus griseus) in monogamous pairs.
LBANA. Porter, G. ; Lacey, A. London : Laboratory Animals Ltd. Laboratory animals. Apr 1969. v. 3 (1). p. 65-68. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0040
Breeding the common shrew (Sorex araneus) in captivity.
LBANA. Searle, J.B. Essex : Laboratory Animal Science Association. Laboratory animals. Oct 1984. v. 18 (4). p. 359-363. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0041
Cage design and configuration for an arboreal species of primate.
LBASA. Williams, L.E. ; Abee, C.R.-Barnes, S.R.-Ricker, R.B. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. June 1988. v. 38 (3). p. 289-291. Includes references. (NAL Call No.: DNAL 410.9 P94).
Abstract: The squirrel monkey (genus Saimiri) is an arboreal primate from equatorial South America. This species forms large social groups that consist of multiple females and males of varying ages, from infant to adult. As the use of squirrel monkeys in research continues to grow, an understanding of optimal cage design and environment is essential. The University of South Alabama Primate Research Laboratory houses a breeding colony of 350 squirrel monkeys. Each group cage, measuring 4.5 x 2.5 x 1.5 meters, can contain up to 20 animals. A breeding group consists of one adult male, eight to ten females, and varying numbers of infant and juvenile animals. In order to determine the most suitable cage environment for the squirrel monkey, a series of studies were carried out to compare various perch materials and cage configurations. Squirrel monkeys preferred a poly-vinyl-chloride pipe perch (rigid) over rope perches (non-rigid). When provided with multiple levels of perches, all levels were used. Males tended to distribute their activities randomly at different levels. In a two tiered perch arrangement, females concentrated 67% of their social activity on the top tier. In a triple tier configuration, females concentrated 66% of their travel on the top tier. These results indicate that by creating a cage environment with multiple tiers of horizontal perches the effective cage space can be doubled or tripled. This provides an effective means of reducing population density without enlarging the dimensions of the cage or reducing social group size.

0042
Cage design for the confinement of deer and goats infested with ectoparasites.
JOPAA2. Cooksey, L.M. ; Davey, R.B. Lawrence, Kan. : American Society of Parasitologists. The Journal of parasitology. Oct 1988. v. 74 (5). p. 891-893. ill. Includes references. (NAL Call No.: DNAL 448.8 J824).

0043
A cage for the ferret.
LBANA. Scharmann, W. ; Wolff, D. Essex : Laboratory Animal Science Association. Laboratory animals. Jan 1987. v. 21 (1). p. 43-47. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).
Abstract: A cage for ferrets is described that consists of a plastic box with a metal sliding-grill top and metal front lattice. It contains a new feeding system using dishes that can be removed without opening the cage. The cages are kept in mobile racks and are commercially available.

0044
Captive breeding of callitrichids: a comparison of reproduction and propagation in different species.
Stevenson, M.F. Cambridge [Cambridgeshire] : Cambridge University Press, 1986. Primate ecology and conservation / edited by James G. Else, Phyllis C. Lee. Paper presented at the "Proceedings of the Tenth Congress of the International Primatological Society," July 1984, Nairobi, Kenya. p. 301-313. Includes references. (NAL Call No.: DNAL QL737.P9P6713 1984).

0045
The care and induced breeding of Xenopus laevis (Laboratory animals).
Phillips, R.J. London, The Institute. Journal.Institute of Animal Technicians. May 1979. v. 30 (1). p. 11-16. ill. 5 ref. (NAL Call No.: QL55.I5).

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Care and management of dogs with colostomies.
Rogers, D.W. ; Tenney, J.B.-Perry, F.W.-Caldwell, F.L. Stuttgart, W. Ger. : G. Fisher Verlag, 1985. The Contribution of laboratory animal science to the welfare of man and animals--past, present and future : 8th Symposium of ICLAS/CALAS, Vancouver, 1983 / editors: J. Archibald, J. Pitchfield, H.C. Rowsell. p. 421-433. ill. Includes references. (NAL Call No.: DNAL QL55.I55 1983).

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The cat.
Accardi, P.J. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter B. Sapanski, Jr., and John E Harkness. p. 233-247, 421. ill. Includes references. (NAL Call No.: DNAL

SF77.M35).

0048
Cats.
Washington, D.C. : Animal Welfare Institute, 1979. Comfortable quarters for laboratory animals. p. 44-51. ill. (NAL Call No.: DNAL SF91.A5 1979).

0049
Centralisation--decentralisation: failure-success.
Hoof, J.A.P. van. Dordrecht : M. Nijhoff, 1988. New developments in biosciences : their implications for laboratory animal science : proceedings of the Third Symposium, Amsterdam, The Netherlands, 1-5 June 1987 / edited by Anton C. Beynen and Henk A. Solleveld. p. 75-80. (NAL Call No.: DNAL QL55.F43 1987).

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Chickens.
Washington, D.C. : Animal Welfare Institute, 1979. Comfortable quarters for laboratory animals. p. 98-101. ill. (NAL Call No.: DNAL SF91.A5 1979).

0051
Chimps and research.
SCIEA. King, F.A. Washington, D.C. : American Association for the Advancement of Science. Science. Dec 2, 1988. v. 242 (4883). p. 1227. (NAL Call No.: DNAL 470 SCI2).

0052
Chimps in research--responding to a growing nationwide shortage, federal agencies are developing a controversial plan to manage chimpanzees.
BISNA. Fox, J.L. Arlington, Va. : The Institute. BioScience - American Institute of Biological Sciences. Feb 1985. v. 35 (2). p. 75-76. (NAL Call No.: DNAL 500 AM322A).

0053
Cleaning of cages for laboratory animals.
Haigh, P.B. London, The Institute Journal - Institute of Animal Technicians. May 1980. v. 31 (1). p. 49-54. (NAL Call No.: QL55.I5).

0054
Comfortable quarters for laboratory animals.
Washington, D.C. : Animal Welfare Institute, 1979. 108 p. : ill. ; 26 cm. (NAL Call No.: DNAL SF91.A5 1979).

0055
Commercial pig pen modifications for housing miniature swine during chronic studies.
Semple, H.A. ; Berzins, R.~Coutts, R.T.~Secord, D.C.~Tam, Y.K. New York : Plenum Press, c1986. Swine in biomedical research / edited by M.E. Tumbleson. Proceedings of a conference on Swine in Biomedical Research, June 17-20, 1985, Columbia, Missouri. p. 153-157. ill. Includes references. (NAL Call No.: DNAL RB125.C68 1985).

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Common diseases and medical management of rodents and lagomorphs.
Collins, B.R. New York, N.Y. : Churchill Livingstone. Contemporary issues in small animal practice. In the series analytic: Exotic animals / edited by E.R. Jacobson and G.V. Kollias Jr.~ Literature review. 1988. v. 9. p. 261-316. Includes references. (NAL Call No.: DNAL SF601.C64).

0057
Comparison of body measurements in the Okinawa meat goat among the islands and the possibility of breeding for miniature goat (as laboratory animal).
Shinjo, A. ; Miyagi, M. Naha, Okinawa. Gakujutsu hokoku. Science bulletin of the College of Agriculture, University of the RyukyusRyukyu Daigaku. Nogakubu. Dec 1978. Dec 1978. (25). p. 301-372. ill. 11 ref. (NAL Call No.: 109.5 R9922).

0058
Comparison of faecal flora of cats based on different housing conditions with specia' reference to Bifidobacterium.
LBANA. Itoh, K. ; Mitsuoka, T.~Maejima, K.~Hiraga, C.~Nakano, K. Essex : Laboratory Animal Science Association. Laboratory animals. July 1984. v. 18 (3). p. 280-284. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0059
Comparison of feeding methods for behavioural experiments with rats.
Davies, K. ; Hynard-Naylor, V. Sussex : The Institute of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Apr 1986. v. 37 (1). p. 45-49. Includes references. (NAL Call No.: DNAL QL55.I5).

0060
A comprehensive animal program for a college of medicine.
Lang, Carol Max. ; Harrell, George T. Bethesda, Md. Dept. of Health, Education, and Welfare, Public Health Service, National Institute of Health 1971. 28 p. : ill. ; 28 cm. Bibliography: p. 28. (NAL Call No.: SF406.3.L3 1971).

0061
Computerisation of the animal house.
Bancroft, L.S. Sussex : The Institute of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Nov 1985. v. 36 (2). p. 191-198. Includes references. (NAL Call No.: DNAL QL55.I5).

0062
Computers in the animal facility.
Lofgreen, P.E. Jr. New York : Media Horizons. Lab animal. Sept 1987. v. 16 (6). p. 59-63. (NAL Call No.: DNAL QL55.A1L33).

0063
Conditioning and breeding facilities for the cynomolgus monkey (Macaca fascicularis) in the Philippines: a progress report on the SICONBREC project.
LBANA, Hobbs, K.R. ; Welshman, M.D.-Nazareno, J.B.-Resuello, R.G. Essex : Laboratory Animal Science Association, Laboratory animals, Apr 1987, v. 21 (2), p. 131-137. Includes references. (NAL Call No.: DNAL QL55.A1L2).

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Conference report on the improved standards for Laboratory Animals Act
Washington, D.C. : The Institute, The Animal Welfare Institute quarterly, Winter 1985/1986, v. 4, i.e. 34 (2), p. 8-9. (NAL Call No.: DNAL HV4761.A5).

0065
Conserve without compromise: a practical application to cage washers.
Deitrich, E.A. New York : Media Horizons, Lab animal, Sept 1982, v. 11 (6), p. 57. Includes references. (NAL Call No.: DNAL QL55.A1L33).

0066
Correlated responses to selection for growth, size and efficiency.
Scholtz, M.M. ; Roux, C.Z. Bloemfontein, South Africa : South African Stud Book and Livestock Improvement Assoc., 1984? . Proceedings of the 2nd World Congress on Sheep and Beef Cattle Breeding, 16-19 April 1984, Pretoria, South Africa / edited by J.H. Hofmeyr and E.H.H. Meyer. Literature review, p. 433-443. Includes references. (NAL Call No.: DNAL SF371.2.W67 1984).

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Cost accounting and the development of per diem schedules.
Black, H.S. ; McAdams, G. New York : Media Horizons, Lab animal, Sept 1983, v. 12 (6), p. 41-45. Includes references. (NAL Call No.: DNAL QL55.A1L33).

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Cost effective practical gnotobiotics at the cage level.
Sedlacek, R.S. ; Suit, H.D.-Rose, E.T. Stuttgart, W. Ger. : G. Fisher Verlag, 1985. The Contribution of laboratory animal science to the welfare of man and animals--past, present and future : 8th Symposium of ICLAS/CALAS, Vancouver, 1983 / editors: J. Archibald, J. Pitchfield, H.C. Rowsell. p. 261-266. ill. Includes references. (NAL Call No.: DNAL QL55.I55 1983).

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Creating a functional toxicology vivarium.
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Wood, M. ; Seamer, J.H. Stuttgart, Gustav Fischer, 1980. Animal quality and models in biomedical research : 7th symposium of the International Council for Laboratory Animal Science (ICLAS), Utrecht, 21.-23. August 1979 / editors, A. Spiegel, S. Erichsen, H.A. Solleveld.Symposium of the International Council for Laboratory Animal Science (7th : 1979 : Utrecht). p. 287-290.p. 287-290. (NAL Call No.: QL55.I55).

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CROSS INFECTION WITH EIGHTEEN PATHOGENS AMONG CAGED LABORATORY ANIMALS.
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Cryptosporidiosis in ferrets.
LBASA. Reng, J.E. ; Gigliotti, F.-Stokes, D.C. Cordova, Tenn. American Association for Laboratory Animal Science, Laboratory animal science, Apr 1988, v. 38 (2), p. 155-158, ill. Includes references. (NAL Call No.: DNAL 410.9 P94).
Abstract: The diagnosis of cryptosporidiosis in two ferrets who died from unrelated causes prompted a survey to determine the prevalence and incidence of the infection in ferrets at our facility. The survey of the existing ferret population and all new arrivals indicated cryptosporidiosis occurred as a subclinical disease a high percentage of young ferrets. 40% of the ferret population and 38 to 100% of the new arrivals had cryptosporidial oocysts in their feces. The infection was found to persist for several weeks in both immunocompetent and immunosuppressed ferrets. The interspecies transmission of Cryptosporidium implies that infected ferrets should be considered a potential source of infection for the general population.

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LBASA. Spencer, A.J. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Feb 1985. v. 35 (1). p. 79-80. ill. Includes references. (NAL Call No.: DNAL 410.9 P94).

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LBASA. Damon, E.G. ; Eidson, A.F.-Hobbs, C.H.-Hahn, F.F. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Feb 1986. v. 36 (1). p. 24-36. ill. Includes references. (NAL Call No.: DNAL 410.9 P94)

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Effect of bedding changes and room ventilation rates on blood and brain ammonia levels in normal rats and rats with portacaval shunts (Air pollution, laboratory animal housing).
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The effect of captivity on reproduction and development in Peromyscus maniculatus.
CJZOAG. Millar, J.S. ; Threadgill, D.A.L. Ottawa, Canada : National Research Council of Canada, Canadian journal of zoology. July 1987. v. 65 (7). p. 1713-1719. Includes references (NAL Call No.: DNAL 470 C16D).

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The effect of repeated reproduction on the incidence of pituitary tumours in Wistar rats.
LBANA. Pickering, C.E. ; Pickering, R.G. Essex : Laboratory Animal Science Association. Laboratory animals. Oct 1984. v. 18 (4). p. 371-378. Includes references. (NAL Call No.: DNAL QL55.A1L3).

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The effect of transportation stress on splenic natural killer cell activity in C57BL/6J mice.
LBASA. Aguila, H.N. ; Pakes, S.P.-Lee, W.C.-Lu, Y.S. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Apr 1988. v. 38 (2). p. 148-151. Includes references. (NAL Call No.: DNAL 410.9 P94)
Abstract: Splenic natural killer cell activity and plasma corticosterone levels were measured in air- and truck-transported C57BL/6J mice (Mus musculus) on days 0, 1, 3 and 5 post-arrival. These data are important in determining adequate stabilization periods for transported animals before studies involving natural killer cells are begun. Three control groups (phosphate buffered saline, polyinosinic-polycytidilic acid, and hydrocortisone injected mice) were stabilized in the animal facilities 3 weeks before the start of experiments. Natural killer activity in transported mice was reduced significantly (p less than 0.05) on day 0 and returned to normal levels by 24 hours. Plasma corticosterone levels were increased significantly (p less than 0.005) on day 0 and returned to control levels by day 1, correlating inversely with splenic natural killer activity. This study indicates that stress resulting from transportation causes a short-term decrease in the splenic natural killer cell activity of mice, and this decrease may be related to the increased plasma corticosterone levels induced by the stressful event. We conclude that mice should be stabilized at least 24 hours before experiments involving the natural killer cell system are begun.

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Effects of cage beddings on microsomal oxidative enzymes in rat liver.
LBASA. Weichbrod, R.H. ; Cesar, C.F.-Miller, J.C.-Simmonds, R.C.-Alvares, A.P.-Ueng, T.H. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. June 1988. v. 38 (3). p. 295-298. Includes references. (NAL Call No.: DNAL 410.9 P94)
Abstract: The purpose of the present studies was to evaluate the effects of some commercially available cage beddings on rat liver microsomal cytochrome P-450-dependent drug-metabolizing enzyme, ethylmorphine N-demethylase, and the carcinogen-metabolizing enzyme,

benzo(a)pyrene hydroxylase. Sprague-Dawley rats were housed in cages containing cedar chip, corncob or heat-treated pinewood bedding for 3 weeks. Control rats were housed in cages on wire bottom floors containing no bedding material. Rats housed in cages containing cedar chip showed 18, 46 and 49% increases in liver cytochrome P-450 content, ethylmorphine N-demethylase and benzo(a)pyrene hydroxylase activities, respectively. The liver enzyme activities of rats housed incages containing corncob bedding were similar to those obtained with control rats. In contrast, the pinewood-bedded rats showed a 21% decrease in ethylmorphine N-demethylase activity without affecting cytochrome P-450 content and benzo(a)pyrene hydroxylase activity. Hexobarbital-induced sleep times of the variously bedded rats were similar to those of control animals. These data suggest that the commercial bedding materials differ in their abilities to affect liver microsomal enzymes. Thus, interlaboratory variability in basal enzyme activities reported in the literature may be partly due to bedding materials used in the animal's cages.

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LBANA. Bell, D.J. ; Bray, G.C. Essex : Laboratory Animal Science Association. Laboratory animals. July 1984. v. 18 (3). p. 267-270. Includes references. (NAL Call No.: DNAL QL55.A1L3).

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Efficacy of propoxur insecticide strip use in a laboratory animal facility (Blatella germanica).
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Establishment and control of a parvovirus-free dog colony.
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Amberg, J.W. ; Portuesi, M.~Lowry, R.R. Joliet, Ill., American Association for Laboratory Animal Science. Laboratory animal science. June 1980. v. 30 (3). p. 586-588. ill. (NAL Call No.: 410.9 P94).

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Holmes, D.D. New York : Media Horizons. Lab animal. Apr 1986. v. 15 (3). p. 39-40. (NAL Call No.: DNAL QL55.A1L33).

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Schmitt, K.M. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter E. Sapanski, Jr., and John E. Harkness. p. 59-64, 414. Includes references. (NAL Call No.: DNAL SF77.M35).

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Farkas, M.J. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter B. Sapanski, Jr., and John E. Harkness. p. 65-84, 414. ill. Includes references. (NAL Call No.: DNAL SF77.M35).

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The housing and handling of marmosets and tamarins infected with AIDS and other retroviruses.
Francis, L. : Moore, R.T.-Raymond, R.T.-Baskerville, A. Dordrecht : M. Nijhoff, 1988. New developments in biosciences : their implications for laboratory animal science : proceedings of the Third Symposium, Amsterdam, The Netherlands, 1-5 June 1987 / edited by Anton C. Beynen and Henk A. Solleveld. p. 99-103. ill. Includes references. (NAL Call No.: DNAL QL55.F43 1987).

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Fox, J.G. Philadelphia : Lea & Febiger, 1988. Biology and diseases of the ferret / edited by James G. Fox. p. 153-158. ill. Includes references. (NAL Call No.: DNAL SF407.F39B56).

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Housing conditions and experimental results.
Weihe, W.H. Dordrecht : M. Nijhoff, 1988. New developments in biosciences : their implications for laboratory animal science : proceedings of the Third Symposium, Amsterdam, The Netherlands, 1-5 June 1987 / edited by Anton C. Beynen and Henk A. Solleveld. Literature review. p. 245-254. Includes references. (NAL Call No.: DNAL QL55.F43 1987).

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How to briefly examine common laboratory animals.
Silverman, J. New York : Media Horizons, Lab animal. May/June 1988. v. 17 (4). p. 38-39. (NAL Call No.: DNAL QL55.A1L33).

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How to develop cost-effective animal room ventilation: build a mock-up.
Neil, D.H. ; Larsen, R.E. New York : Media Horizons. Lab animal. Jan/Feb 1982. v. 11 (1). p. 32-33, 35-37. ill. Includes references. (NAL Call No.: DNAL QL55.A1L33).

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How to increase employee participation in the lab animal environment.
Hayden, C.C. New York : Media Horizons. Lab animal. Sept 1987. v. 16 (6). p. 47, 49. Includes references. (NAL Call No.: DNAL QL55.A1L33).

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The human factor--the weakest (Laboratory animal care programs, animal facility design and construction, information retrieval systems, Germany).
Brede, H.D. Joliet, Ill., American Association for Laboratory Animal Science. Laboratory animal science. Apr 1980. v. 30 (2,pt.1). p. 451-459. ill. 11 ref. (NAL Call No.: 410.9 P94).

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Husbandry, breeding and maintenance of a viable population of cotton top tamarins (Sanguinus oedipus oedipus).
Scullion, F.T. Sussex : The Institute of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Dec 1987. v. 38 (3). p. 167-174. Includes references. (NAL Call No.: DNAL QL55.I5).
Abstract: Members of the family Callithricidae are commonly used as laboratory primates and some species have been vital in certain areas of medical research. Constant erosion of the South American tropical rain forests, caused by logging for commercial and agricultural uses, has placed a number of species in danger of extinction in their natural habitat. Laboratory bred animals are helping to ease the pressure on natural populations whilst increasing the knowledge about particular species of tamarin as kept in the University of Bristol colony.

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Immunogenetic aspects of a canine breeding colony.
LBASA. Ladiges, W.C. ; Deeg, H.J.-Raff, R.F.-Storb, R. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Feb 1985. v. 35 (1). p. 58-62. ill. Includes references. (NAL Call No.: DNAL 410.9 P94).

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The impact of the GLPs on lab animal research.
Soave, O. ; Tufts, N.R. New York : Media Horizons. Lab animal. Mar 1986. v. 15 (2). p. 39, 41, 43, 45. Includes references. (NAL Call No.: DNAL QL55.A1L33).

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Improved resting boards for cat & dog cages.
Vondruska, J.F. New York : Media Horizons. Lab animal. Mar 1982. v. 11 (2). p. 45-46. ill. Includes references. (NAL Call No.: DNAL QL55.A1L33).

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Inapparent Streptococcus pneumoniae type 35 infections in commercial rats and mice.
LBASA. Fallon, M.T. ; Reinhard, M.K.-Gray, B.M.-Davis, T.W.-Lindsey, J.R. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Apr 1988. v. 38 (2). p. 129-132. Includes references. (NAL Call No.: DNAL 410.9 P94).
Abstract: Streptococcus pneumoniae was isolated from specific-pathogen-free rodents in two rooms at a commercial breeding facility during vendor surveillance testing. In a survey of 274 animals from the two rooms over a period of 7 months, capsular serotype 35 S. pneumoniae was isolated from the upper respiratory tracts of 11% (9 of 82) of C57BL/6 mice in room A and 14% (10 of 72) of F344 rats in room B, but not from WKY rats, BALB/c mice or DBA/2 mice from room A. In both C57BL/6 mice and F344 rats, older rodents had higher colonization frequencies. Nasal lavage cultures gave the best results in identifying colonized rodents. No clinical illness or microscopic lesions were associated with pneumococcal colonization in rats or mice, and no other evidence of potential pathogen infection was found except for positive serologic tests for mouse rotavirus in mice. This is the first report of natural pneumococcal infection in mice, and the first report of type 35 S. pneumoniae infection in rodents. The findings support an earlier observation that pneumococcal infections in rat colonies tend to be monotypic and suggest that the same may be true in mice.

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Increasing morale among technicians in a research animal facility.
Kolb, E.R. ; Musser, T.K. New York : Media Horizons. Lab animal. July/Aug 1983. v. 12 (5). p. 41-42. (NAL Call No.: DNAL QL55.A1L33).

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The influence fo litter size and favourable conditions on mortality and weaning weights in rats.
LBANA. Kahan, E. ; Rosen, M. Essex : Laboratory Animal Science Association. Laboratory animals. July 1984. v. 18 (3). p. 247-251. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

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Influence of photoperiod, isolation and escape option on weight gain of golden hamsters.
Hoffman, R.A. ; Habeeb, P. Sussex : The Institute of Animal Technology.

Animal technology : journal of the Institute of Animal Technology. Aug 1988. v. 39 (2). p. 93-98. Includes references. (NAL Call No.: DNAL QL55.I5).

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The influence of various housing conditions on the ocular fundus in Wistar rats.
LBANA. Ernst, A. ; Weiss, J. Essex : Laboratory Animal Science Association. Laboratory animals. July 1984. v. 18 (3). p. 221-223. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0166
Insect control ideas (Laboratory animal facilities).
Caruba, A. New York, United Business Publications. Lab animal. Mar/Apr 1980. v. 9 (2). p. 17. ill. (NAL Call No.: QL55.A1L33).

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Interspecific contrasts in response of macaques to transport cage training.
LBASA. Clarke, A.S. ; Mason, W.A.~Moberg, G.P. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. June 1988. v. 38 (3). p. 305-309. Includes references. (NAL Call No.: DNAL 410.9 P94).
Abstract: Corticosteroid values in response to brief confinement in a transport cage were compared between rhesus, bonnet, and crabeating macaques before and after they were trained to enter the cage. Behavioral data were collected to assess performance during training. Species differences were found both in training measures and in corticosteroid response to confinement in the transport cage after training. Bonnets took longer to train than rhesus or crabeaters. Rhesus showed the smallest adrenocortical response to cage confinement after training and crabeaters the greatest, suggesting that this group habituated more slowly to confinement than the other two groups. The results have implications for choice of experimental subject species and for management and husbandry of laboratory primates.

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Introduction of Salmonellae into a centralized laboratory animal facility by infected day old chicks.
LBANA. Nicklas, W. Essex : Laboratory Animal Science Association. Laboratory animals. Apr 1987. v. 21 (2). p. 161-163. Includes references. (NAL Call No.: DNAL QL55.A1L3).

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An introduction to bedding materials.
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LBANA. Lovell, D.P. ; Totman, P.~Bigelow, S.W.~Nebert, D.W.~Hoffman, H.A.~Greig, J.B.~Festing, M.F.W. Essex : Laboratory Animal Science Association. Laboratory animals. July 1984. v. 18 (3). p. 291-297. Includes references. (NAL Call No.: DNAL QL55.A1L3).

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Investigation on irradiated standard diets and their extract components on the possible mutagenic effect in the "host mediated assay" using Salmonella typhimurium G 46 and TA 1530 (of experimental animals). Prufung bestrahlter Standardfuttermittel und deren Extrakte auf mutagene Wirkung im Host Mediated Assay an Salmonella typhimurium G 46 und TA 1530. GERMAN.
Johnston-Arthur, T. ; Turanitz, K.~Stehlik, G.~Binder, W. Wien, Osterreichischer Agrarverlag. Die Bodenkultur. Feb 1979. v. 30 (1). p. 95-107. ill. Bibliography p. 106-107.

(NAL Call No.: 19 B635).

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Organophosphate toxicity in rats associated with contaminated bedding.
LBASA. Gibson, S.V. ; Besch-Williford, C.~Raisbeck, M.F.~Wagner, J.E.~McLaughlin, R.M. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Dec 1987. v. 37 (6). p. 789-791. Includes references. (NAL Call No.: DNAL 410.9 P94).

0231
An outbreak of Plasmodium inui malaria in a colony of diabetic Rhesus monkeys.
LBASA. Schofield, L.D. ; Bennett, B.T.~Collins, W.E.~Beluhan, F.Z. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Apr 1985. v. 35 (2). p. 167-168. Includes references. (NAL Call No.: DNAL 410.9 P94).

0232
Passive infrared movement detector, a new equipment to monitor motor activity of small rodents in normal cages.
Sigg, H. ; Tamborini, P. Dordrecht : M. Nijhoff, 1988. New developments in biosciences : their implications for laboratory animal science : proceedings of the Third Symposium, Amsterdam, The Nethrlands, 1-5 June 1987 / edited by Anton C. Beyneen and Henk A. Solleveld. p. 349-352. (NAL Call No.: DNAL QL55.F43 1987).

0233
Persistent sympathetic nervous system arousal associated with tethering in cynomolgus macaques.
LBASA. Adams, M.R. ; Kaplan, J.R.~Manuck, S.B.~Uberseder, B.~Larkin, K.T. Cordova, Tenn. : American Association for Laboratory Animal

Science. Laboratory animal science. June 1988. v. 38 (3). p. 279-281. Includes references. (NAL Call No.: DNAL 410.9 P94).
Abstract: The swivel-tether system has been used extensively in biomedical research involving nonhuman primates, yet there has been little or no investigation into potential adverse influences of this form of restraint on research results. In the study described here, a portable electrocardiographic telemetry system was used for continuous monitoring of the heart rate of 26 cynomolgus monkeys while: (a) pair-caged, 8 weeks prior to tethering; (b) singly-caged, tethered; (c) singly-caged, tethered, administered propranolol (30 mg/kg/day) in the diet; (d) group-housed (five monkeys per group), 1 week after group formation; and (e) group-housed (five monkeys per group), 4 weeks after group formation. Tethering resulted in persistent elevations in heart rate relative to the other conditions. Administration of propranolol, a beta-adrenergic antagonist, resulted in an abrupt, sustained decrease in heart rate indicating that the increase in heart rate associated with tethering was due to persistent stimulation of the sympathetic nervous system. Since multiple aspects of cardiovascular function are influenced by the sympathetic nervous system, and other organs and systems (e.g., pituitary-gonadal) also may be affected, investigators using the swivel-tether system should be cognizant of these potential effects when designing experiments and interpreting the results.

0234
Planning, structure and construction of animal facilities for institutes performing animal experiments. Planung, Struktur und Errichtung von Versuchstierbereichen tierexperimentell tatiger Institutionen. --. German.
Basel : Gesellschaft fur Versuchstierkunde, 1980. "Empfehlungen des "Ausschusses fur Standardisierung von Methoden in der Versuchstierhaltung" der Gesellschaft fur Versuchstierkunde zur Planungen, Struktur und Errichtung von Versuchstierbereichen tie~ Cover title. 63 p. : ill. ; 21 cm. --. (NAL Call No.: DNAL SF406.3.P5 1980)

0235
Plasma-testosterone development in colony and individually housed male guinea pigs.
Sachser, N. ; Prove, E. Berlin, W. Ger. : Paul Parey. Ethology. Sept 1988. v. 79 (1). p. 62-70. Includes references. (NAL Call No.: DNAL QL750.E74).

0236
Poor breeding performance of rabbits.
Assal, A.N. Sussex : The Institute. Animal technology : journal of the Institute of Animal Technology. Dec 1988. v. 39 (3). p. 183-187. Includes references. (NAL Call No.: DNAL QL55.I5).

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Practical methods for the prevention of genetic contamination in inbred and congenic rat and mouse colonies.
Peters, A.G. Sussex : The Institute of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Apr 1986. v. 37 (1). p. 17-23. ill. Includes references. (NAL Call No.: DNAL QL55.I5).

0238
Pressure for better care for chimpanzees in captivity.
Nottingham : Fund for the Replacement of Animals in Medical Experiments. Alternatives to laboratory animals : ATLA. Mar 1988. v. 15 (3). p. 255-259. (NAL Call No.: DNAL Z7994.L3A5).

0239
Prevalence rates of infectious agents among commercial breeding populations of rats and mice.
LBASA. Casebolt, D.E. ; Lindsey, J.R.-Cassell, G.H. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. June 1988. v. 38 (3). p. 327-329. Includes references. (NAL Call No.: DNAL 410.9 P94).

0240
Prevention of cage-associated distress.
Spinelli, J.S. ; Markowitz, H. New York : Media Horizons. Lab animal. Nov/Dec 1985. v. 14 (8). p. 19-22, 24, 28. Includes references. (NAL Call No.: DNAL QL55.A1L33).

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The Primate Information Center.
New York : Media Horizons. Lab animal. Apr 1986. v. 15 (3). p. 44-45. (NAL Call No.: DNAL QL55.A1L33)

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Primates.
Georgeson, S. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter E. Sapanski, Jr., and John E. Harkness. p. 261-279, 422. ill. Includes references. (NAL Call No.: DNAL SF77.M35).

0243
Principles of animal care.
Bruhin, H. London : Academic Press, 1986. Experimental models in antimicrobial chemotherapy / edited by Oto Zak, Merle A. Sande. Literature review. v. 1 p. 7-18. ill. Includes references. (NAL Call No.: DNAL RM267.E97)

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Principles of animal husbandry.
Wilson, M.S. Chichester, England : Wiley, c1987. Laboratory animals : an introduction for new experimenters / edited by A.A. Tuffery. p. 99-116. Includes references. (NAL Call No.: DNAL QL55.L274).

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Principles of care and management in a laboratory animal facility.
Joubert, C.J. Pretoria. JournalSouth African Veterinary Association. Sept 1978. v. 49 (3). p. 153-154. 1 ref. (NAL Call No.: 41.8 SO8).

0246
Progesterone as a predictor of cyclicity in Bolivian squirrel monkeys during the breeding season.
LBASA. Aksel, S. ; Diamond, E.J.-Hazelton, J.-Wiebe, R.H.-Abee, C.R. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Feb 1985. v. 35 (1). p. 54-57. ill. Includes references. (NAL Call No : DNAL 410.9 P94).

0247
Pulling together a dispersed animal program.
ward, G.M. New York : Media Horizons. Lab anim. Mar 1982. v. 11 (2). p. 48. (NAL Call No.: DNAL QL55.A1L33).

0248
Q fever control measures: recommendations for research facilities using sheep.
Bernard, K.W. ; Parham, G.L.-Winkler, W.G.-Helmick, C.G. Stuttgart, W. Ger. : G. Fisher Verlag, 1985. The Contribution of laboratory animal science to the welfare of man and animals--past, present and future : 8th Symposium of ICLAS/CALAS, Vancouver, 1983 / editors: J. Archibald, J. Pitcnfield, H.C. Rowsell : p. 89-96. Includes references. (NAL Call No.: DNAL QL55.I55 1983).

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The rabbit.
Riggs, R.J. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter B. Sapanski, Jr., and John E. Harkness. p. 209-232, 420. ill. Includes references. (NAL Call No.: DNAL SF77.M35).

0250
Rabbit husbandry and medicine.
Harkness, J.E. Philadelphia, Pa. : W.B. Saunders Company. The Veterinary clinics of North America : Small animal practice. In the series analytic: Exotic pet medicine / edited by J.E. Harkness. Sept 1987. v. 17 (5). p. 1019-1044. ill. Includes references. (NAL Call No.: DNAL SF601.V523).

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Rabbits.
washington, D.C. : Animal Welfare Institute, 1979. Comfortable quarters for laboratory animals. p. 74-79. ill. (NAL Call No.: DNAL SF91.A5 1979).

0252
Rapid diagnosis and management of parainfluenza I virus infection in common marmosets (Callithrix jacchus).
LBANA. Sutherland, S.D. ; Almeida, J.D.-Gardner, P.S.-Skarpa, M.-Stanton, J. London : Laboratory Animal Science Association. Laboratory animals. Apr 1986. v. 20 (2). p. 121-126. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0253
The rat.
Stone, J. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter B. Sapanski, Jr., and John E. Harkness. p. 155-168, 417-418. ill. Includes references. (NAL Call No.: DNAL SF77.M35).

0254
Rationalization and computerization of the drug supply to an animal unit
LBANA. Wootton, R. ; Henderson, P. Essex : Laboratory Animal Science Association. Laboratory animals. Oct 1987. v. 21 (4). p. 283-288. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3)
Abstract: Drug stocks in an animal unit were rationalized by discarding out-of-date or unwanted items and drawing up an approved stock list. A computerized system of stock control which enables a regular and accurate inventory of pharmaceuticals to be made was then established. In addition, the paperwork required for reordering drugs is produced automatically. Pharmaceuticals to a total value of 1650 pounds were discarded during the rationalization phase. The value of drugs stocked in the animal unit then stabilized at about one-third of previous levels. In the first 6 months of operation of the new system drug expenditure fell by about 40% in comparison with the same period 1 year previously. The drug stock control system has proved economical to operate and accurate, and can be run by persons without computer expertise. Valuable savings in both cost and labour have resulted. Effective management of drug expenditure by the animal unit is now possible.

0255
Rats
washington, D.C. : Animal Welfare Institute, 1979. Comfortable quarters for laboratory animals. p. 86-89. ill. (NAL Call No.: DNAL SF91.A5 1979).

0256
Rearing a second generation of cotton-top tamarins (Saguinus oedipus oedipus) in captivity.
LBANA. Kirkwood, J.K. ; Epstein, M.A.-Terlecki, A.J.-Underwood, S.J. Essex : Laboratory Animal Science Association. Laboratory animals. Oct 1985. v. 19 (4). p. 269-272. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0257
Rearing and maintenance of the Australian anuran Limnodynastes tasmaniensis, under laboratory conditions.
Chapman, J.E. Sussex : The Institute

of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Dec 1987. v. 38 (3). p. 175-182. ill. Includes references. (NAL Call No.: DNAL QL55.I5).
Abstract: Methods are described for rearing and maintaining in the laboratory the anuran Limnodynastes tasmaniensis. It is necessary to provide a range of live foods for adults and to ensure high water quality for all growth stages. The frog does not hibernate and breeds throughout the year in the laboratory, making it an excellent subject for experimental research.

0258
Recommendations for the housing of macaque monkeys.
LBANA. Goosen, C. ; Gulden, W. van der-Rozemond, H.-Balner, H.-Bertens, A.-Boot, R.-Brinkert, J.-Dienske, H.-Janssen, G.-Lammers, A.-Timmermans, P. London : Laboratory Animal Science Association. Laboratory animals. Apr 1984. v. 18 (2). p. 99-102. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0259
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Cebul, M.S. Bronx, N.Y. : New York Zoological Society. Animal kingdom. Feb/Mar 1981. v. 84 (1). p. P1-P4. ill. (NAL Call No.: DNAL 410.9 N483B).

0260
Rederivation of MHV and MEV antibody positive mice by cross-fostering and use of the microisolator caging system.
LBASA. Lipman, N.S. ; Newcomer, C.E.-Fox, J.G. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Apr 1987. v. 37 (2). p. 195-199. ill. Includes references. (NAL Call No.: DNAL 410.9 P94).

0261
Reduced fertility in gracile axonal dystrophy (gad) mice.
Yamazaki, K. ; Wakasugi, N.-Sakakibara, A.-Tomita, T. Tokyo : Keio University School of Medicine. Jikken dobutsu = experimental animals. Apr 1988. v. 37 (2). p. 195-199. Includes references. (NAL Call No.: DNAL QL55.J55).

0262
Regulation of animal experimentation in Sweden.
Skoglund, E. Stockholm : Blackwell Scientific Publications. Acta physiologica Scandinavica. Paper presented at the "Second CFN Symposium on the Ethics of Animal Experimentation," August 12-14, 1985, Stockholm, Sweden. 1986. v. 128 (554). p. 153-157. (NAL Call No.: DNAL QP1.A2 SUPPL.).

0263
A relationship between frequency of display of territorial marking behavior and coat color in male Mongolian gerbils.
LBASA. Turner, J.W. Jr. ; Carbonell, C. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. Oct 1984. v. 34 (5). p. 488-490. Includes references. (NAL Call No.: DNAL 410.9 P94).

0264
Relationship of dietary iodide and drinking water disinfectants to thyroid function in experimental animals.
EVHPA. Revis, N.W. ; McCauley, P.-Holdsworth, G. Research Triangle Park, N.C. : National Institute of Environmental Health Sciences. E H P Environmental health perspectives. Nov 1986. v. 69. p. 243-248. Includes references. (NAL Call No.: DNAL RA565.A1E54).

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Reproduction, breeding, and growth.
Fox, J.G. Philadelphia : Lea & Febiger, 1988. Biology and diseases of the ferret / edited by James G. Fox. Literature review. p. 174-183. ill. Includes references. (NAL Call No.: DNAL SF407.F39B56).

0266
Reproduction, development and physiology of the gray short-tailed opossum (Monodelphis domestica).
LBASA. Kraus, D.B. ; Fadem, B.H. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Aug 1987. v. 37 (4). p. 478-482. Includes references. (NAL Call No.: DNAL 410.9 P94).

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Reproductive cyclicity and breeding in the squirrel monkey.
Dukelow, W.R. New York : Plenum Press, c1985. Handbook of squirrel monkey research / edited by Leonard A. Rosenblum and Christopher L. Coe. Literature review. p. 169-190. ill. Includes references. (NAL Call No.: DNAL QL737.P925H36).

0268
Reproductive performance in C57BL and I strain mice.
LBASA. Hoover-Plow, J. ; Elliott, P.-Moynier, B. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Oct 1988. v. 38 (5). p. 595-602. Includes references. (NAL Call No.: DNAL 410.9 P94).

0269
Research animal farm facilities--J. Hills Miller Health Center, University of Florida, Gainesville, Florida.
Washington, D.C. : Animal Welfare Institute, 1979. Comfortable quarters for laboratory animals. p. 58-61. ill. (NAL Call No.: DNAL SF91.A5 1979).

0270
A restraint system for the common marmoset (Callithrix jacchus).
LBANA. O'Byrne, K.T. ; Morris, K.D. London : Royal Society of Medicine Services. Laboratory animals. Apr 1988. v. 22 (2). p. 148-150. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

Abstract: A method for restraining the marmoset in a primate chair is described. The device is inexpensive to construct, is reliable, and the majority of animals can be habituated to its use. The chair has been used in neurobiological studies employing electrophysiological recordings, with or without concurrent collection of serial blood samples.

0271
Retinal cyclic light damage threshold for albino rats.
LBASA. Semple-Rowland, S.L. ; Dawson, W.W. Joliet, Ill. : American Association for Laboratory Animal Science. Laboratory animal science. June 1987. v. 37 (3). p. 289-298. ill. Includes references. (NAL Call No.: DNAL 410.9 P94).

0272
The role of the assistant laboratory animal technician.
Alford, J.A. ; Beltran, F.D. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter B. Sapanski, Jr., and John E. Harkness. p. 11-19, 411-412. Includes references. (NAL Call No.: DNAL SF77.M35).

0273
Safety in the animal house / edited by J.H. Seamer & Margery Wood. -.
. Seamer, J. H.~Wood, Margery. London (England) Laboratory Animals Ltd 1981. 106 p. ; 23 cm. --. Includes bibliographies. (NAL Call No.: SF406.4.S4 1981).

0274
Salvation or extinction of the chimpanzee: the final struggle begins?
Nottingham : Fund for the Replacement of Animals in Medical Experiments. Alternatives to laboratory animals ATLA. Mar 1988. v. 15 (3). p. 176-179. Includes references. (NAL Call No.: DNAL Z7994.L3A5).

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Sanitation.
Shapiro, J. ; Stevens, J.D. Joliet, Ill. : American Association for Laboratory Animal Science, c1984. Manual for assistant laboratory animal technicians / edited by Walter B. Sapanski, Jr., and John E. Harkness. p. 85-101, 414-415 ill. Includes references. (NAL Call No.: DNAL SF77.M35).

0276
Sanitation, sterilization & hygiene.
Shapiro, J.H. New York : Media Horizons. Lab animal. Apr 1982. v. 11 (3). p. 50, 52, 54. (NAL Call No.: DNAL QL55.A1L33).

0277
Seasonal variation of temperatures in rabbits.
LBANA. Pericin, C. ; Grieve, A.P. Essex : Laboratory Animal Science Association. Laboratory animals. July 1984. v. 18 (3). p. 230-236. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0278
Security in the research laboratory. I. Perimeter and internal control.
Green, K.A. ; Clifford, D.H. New York : Media Horizons. Lab animal. Mar 1986. v. 15 (2). p. 22-24, 27-28, 31, 34, 36. ill. (NAL Call No.: DNAL QL55.A1L33).

0279
Security in the research laboratory. 2. Communications, personnel and publicity.
Clifford, D.H. ; Green, K. New York : Media Horizons. Lab animal. Apr 1986. v. 15 (3). p. 23-24, 28-29. ill. Includes references. (NAL Call No.: DNAL QL55.A1L33).

0280
Serological following of a laboratory rat breeding contaminated with respiratory viruses during 1981-1986.
Pribylova, M. ; Svoboda, T.~Klir, P. Dordrecht : M. Nijhoff, 1988. New developments in biosciences : their implications for laboratory animal science : proceedings of the Third Symposium, Amsterdam, The Netherlands, 1-5 June 1987 / edited by Anton C. Beynen and Henk A. Solleveld. p. 379-384. ill. Includes references. (NAL Call No.: DNAL QL55.F43 1987).

0281
Sex ratio adjustment in a seasonally breeding primate species. Evidence from the Barbary macaque population at Affenberg Salem.
Paul, A. ; Kuester, J. Berlin, W. Ger. Paul Parey. Ethology. Feb 1987. v. 74 (2). p. 117-132. Includes references. (NAL Call No.: DNAL QL750.E74).

0282
Sexual behaviour and paternity in three captive groups of rhesus monkeys (Macaca mulatta).
ANBEA. Stern, B.R. ; Smith, D.G. London : Bailliere Tindall. Animal behaviour. Feb 1984. v. 32 (pt 1). p. 23-32. Includes references. (NAL Call No.: DNAL 410.B77).

0283
Side effects of selection for growth in laboratory animals.
Roberts, R.C. Amsterdam. Livestock production science. Jan 1979. v. 6 (1). p. 93-104. ill. Bibliography p. 102-104. (NAL Call No.: SF1.L5).

0284
A simple, cheap barrier system to upgrade the health status of a conventional rat breeding colony.
Lewin, L. ; Hansen, G. Sussex : The Institute of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Aug 1986. v. 37 (2). p. 93-104. ill. Includes references. (NAL Call No.: DNAL QL55.I5).

0285
Simple methods which maintain the barrier status of specific-pathogen-free animals during experimentation.
LBANA. Herbert, J. ; Roser, B. Essex : Laboratory Animal Science Association. Laboratory animals. Apr 1987. v. 21 (2). p. 149-154. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0286
A simplified method for stress free continuous blood collection in large animals.
LBASA. Ladewig, J. ; Stribrny, K. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. June 1988. v. 38 (3). p. 333-335. ill. Includes references. (NAL Call No.: DNAL 410.9 P94).

0287
Skills and responsibilities in laboratory management.
Scher, S. New York . Media Horizons. Lab animal. May/June 1985. v. 14 (4). p. 43. Includes references. (NAL Call No.: DNAL QL55.A1L33).

0288
Smaller laboratory animals.
Keeley, A. Oxford Oxfordshire : Pergamon Press, c1985. Jones's animal nursing / edited by D.R. Lane for the British Small Animal Veterinary Association, with contributions from twenty-six authors. p. 148-153. ill. Includes references. (NAL Call No.: DNAL SF774.5.J66 1985).

0289
Social development during the first twenty weeks in the cotton-top tamarin (Saguinus o. oedipus).
ANBEA. Cleveland, J. ; Snowdon, C.T. London : Bailliere Tindall. Animal behaviour May 1984. v. 32 (pt.2). p. 432-444. Includes references. (NAL Call No.: DNAL 410 B77).

0290
Social influences on vigilance in rabbits.
ANBEA. Roberts, S.C. London : Bailliere Tindall. Animal behaviour. June 1988. v. 36 (3). p. 905-913. Includes references. (NAL Call No.: DNAL 410 B77).
Abstract: The potential advantage of corporate vigilance to rabbit, Oryctolagus cuniculus, groups was studied in free-ranging rabbits that associated and cohabited basically in male-female 'consorting' pairs. Evening observations were conducted of rabbits during the breeding season. Levels of vigilance of an individual rabbit during feeding decreased with proximity to that rabbit's 'consort'. In contrast, rabbits increased their vigilance in the presence of greater numbers of non-consort rabbits either nearby or over 12 m away. An experiment using stuffed animals as stimulus objects indicated that the presence of a strange rabbit or of a fox increased the proportion of time that rabbits spent vigilant. Non-social factors also influenced vigilance and feeding. In particular, vigilance decreased as the evening proceeded and with higher temperature. For bucks only, it also decreased as the season advanced.

0291
Some data on the fertility of bank voles (Clethrionomys glareolus britannicus) in the laboratory supporting the hypothesis of induced ovulation.
LBANA. Odberg, F.O. London : Laboratory Animal Science Association. Laboratory animals. Jan 1984. v. 18 (1). p. 33-35. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).

0292
Some effects of limited exercise on purpose-bred Beagles.
AJVRAH. Campbell, S.A. ; Hughes, H.C.-Griffin, H.E.-Landi, M.S.-Mallon, F.M. Schaumburg, Ill. : American Veterinary Medical Association. American journal of veterinary research. Aug 1988. v. 49 (8). p. 1298-1301. Includes references. (NAL Call No.: DNAL 41.8 AM3A).
Amendments to the Animal Welfare Act (PL 99-198) require that an exercise program for dogs be established by the attending veterinarian. A 6-week study was conducted to determine the effects of a moderate exercise program in purpose-bred Beagles. Sixteen male Beagles (4/group) were maintained as follows: (1) standard cage without exercise; (2) standard cage with individual exercise periods (35 minutes, 3 times/week); (3) large cage without exercise; and (4) standard cage with group-release exercise periods. Blood samples were collected for CBC, serum biochemical analysis including determination of serum cortisol concentration, and immune function (lymphocyte transformation assay). Group-released dogs interacted with each other during most of the exercise time. Fighting in these dogs occurred only during the third week. Dogs had little inclination to exercise when released along into the exercise area. Regardless of the size of the cage, dogs did not exercise unless human beings were present in the room. There were no significant differences in laboratory findings among dogs in the 4 groups. This moderate exercise program had no demonstrable effects. Similarly, continuous cage housing, without a formal exercise program, could not be determined to be detrimental to the physiologic or health status of dogs.

0293
Some factors which affect the ability of rats to cope with food deprivation.
Naylor, V.H. ; Davies, K. Sussex : The Institute of Animal Technology. Animal technology : journal of the Institute of Animal Technology. Apr 1987. v. 38 (1). p. 35-44. ill. Includes references. (NAL Call No.: DNAL QL55.I5).

0294
Some thoughts on the laboratory cage design process.
Wallace, M.E. Washington, D.C. : Institute for the Study of Animal Problems. International journal for the study of animal problems. July/Sept 1982. v. 3 (3). p. 234-242. ill. Includes references. (NAL Call No.: DNAL HV4701.I49).

0295
Specialized management of a miniature swine herd for the EPRI electric field study.
Beamer, J.L. ; Horstman, V.G. New York : Plenum Press, c1986. Swine in biomedical research / edited by M.E. Tumbleson. Proceedings of a conference on Swine in Biomedical Research, June 17-20, 1985, Columbia, Missouri. p. 217-221. ill. Includes references. (NAL Call No.: DNAL RB125.C68 1985).

0296
Standardization of laboratory animals--expectations.
Dushkin, V.A. Oslo, Norway : The International Council for Laboratory Animal Science. ICLAS bulletin. Autumn 1984. (55). p. 29-30. (NAL Call No.: DNAL 410 IN84).

0297
Standards in laboratory animal managementproceedings of a symposium organised by the Laboratory Animal Science Association and the Universities Federation for Animal Welfare held at the Zoological Society of London, 30th and 31st March 1983.
Potters Bar : The Federation, c1984. vi, 280 p. : ill., plans ; 21 cm. Includes bibliographies. (NAL Call No.: DNAL SF406.S73).

0298
The Stanford outdoor primate facility.
McGinnis, P.R. ; Kraemer, H.C. Washington, D.C. : Animal Welfare Institute, 1979. Comfortable quarters for laboratory animals. p. 20-27. ill. Includes references. (NAL Call No.: DNAL SF91.A5 1979).

0299
The stress of captivity.
Pereira, M.E. Westport, Conn. : Animal Rights Network. The Animals' agenda. July/Aug 1987. v. 7 (6). p. 46-47. ill. (NAL Call No.: DNAL HV4701.A45).

0300
Studies on biological effects of AC electric field on small experimental animals. I. Feasibility study of growth, reproduction of mice and estrous cycle of golden hamsters in hemi-speral metal cage. Japanese.
Negishi, T. ; Shiga, Y.-Shigemitsu, T.-Endo, O.-Nishiyama, F. Chiba, Denryoku Chuo Kenkyujo. Denryoku Chuo Kenkyujo hokoku. Oct 1981. Oct 1981. (480021). 30 p. ill. Includes 10 ref. (NAL Call No.: S671.D38).

0301
Studies on the fauna of Diptera in cages of experimental animals in consideration of hygienic points of view. 2. Rabbit (Oryctolagus cuniculus f. domesticus L.). Uber die Dipterenfauna von Versuchstierstallen unter Berucksichtigung hygienischer Gesichtspunkte. 2. Kaninchen (Oryctolagus cuniculus f. domesticus L.). German.
Kuhlhorn, F.ASPUC. Berlin, W. Ger. : Paul Parey. Anzeiger fur Schadlingskunde, Pflanzenschutz , Umweltschutz. July 1982. v. 55 (7). p. 103-107. Includes references. (NAL Call No.: 421 AN9).

0302
Supervision in the small facility.
Windle, D.W. New York : Media Horizons. Lab animal. Mar 1982. v. 11 (2). p. 44. (NAL Call No.: DNAL QL55.A1L33).

0303
The supply of laboratory animals.
Donelly, H. Chichester England : Wiley, c1987. Laboratory animals : an introduction for new experimenters / edited by A.A. Tuffery. p. 63-78. Includes references. (NAL Call No.: DNAL QL55.L274).

0304
Survey of laboratory animal facilities and animal utilisation in India.
Oslo, Norway : The International Council for Laboratory Animal Science. ICLAS bulletin. Sept 1982. (51). p. 17-21. (NAL Call No.: DNAL 410 IN84).

0305
Survey results: floors & floor materials.
Novak, G.R. New York : Media Horizons. Lab animal. Jan/Feb 1982. v. 11 (1). p. 48-49. Includes references. (NAL Call No.: DNAL QL55.A1L33).

0306
Systems for breeding non-consanguineous laboratory animals. Sistemas de cria de animales de laboratorio no consanguineos /Valeria Krishkina ... et al. . Spanish.
Krishkina, Valeria. La Habana : Academia de Ciencias de Cuba, 1980. Summary in English. 13 p. : ill. ; 27 cm. Bibliography: p. 9-10. (NAL Call No.: DNAL QL1.I59 no.147).

0307
A technique for rearing germfree piglets obtained without surgery.
LBANA. Ratcliffe, B. ; Fordham, J.P. Essex : Laboratory Animal Science Association. Laboratory animals. Jan 1987. v. 21 (1). p. 53-59. ill. Includes references. (NAL Call No.: DNAL QL55.A1L3).
Abstract: A relatively simple procedure is described for obtaining germfree piglets which does not involve hysterectomy or hysterotomy. Newborn pigs were delivered into an isolator and their freedom from microbial contamination was ensured by applying bactericidal solutions externally and a

combination of antibiotics in solution per os. 40 piglets so derived have been maintained free from detectable micro-organisms, some for up to 140 days. Equipment is described which allowed the long-term holding of these animals so that nutritional balance studies could be completed.

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LBASA. Everitt, J.I. ; Ross, P.W.~Davis, T.W. Cordova, Tenn. : American Association for Laboratory Animal Science. Laboratory animal science. Oct 1988. v. 38 (5). p. 609-611. Includes references. (NAL Call No.: DNAL 410.9 P94).

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Abee, C.R. 206
Abee, C.R.~Barnes, S.R.~Ricker, R.B. 41
Accardi, P.J. 47
Adams, M.R. 233
Aguila, H.N. 97
AJVRAH. 292
Aksel, S. 246
ALBVA. 21
Alford, J.A. 272
Allan, D.J. 116
Almeida, J.D.~Gardner, P.S.~Skarpa, M.~Stanton, J. 252
Alozie, T.C. 88
Amberg, J.W. 126
ANBEA. 89, 225, 282, 289, 290
Anderson, J.H.~Bielitzki, J.T. 86
Anderson, J.R.~Morgan-Jones, S.C.~Jones, S.P. 74
Angulo, A.F. 83
Assal, A.N. 236
Auran, T. 5
Bancroft, L.S. 61
Bantin, G.C. 180
Baskaran, G. 187
Baskerville, M. 204
Bassir, D. 88
Baumans, V.~Bertens, A.P.M.G.~Havenaar, R.~Hesp, A.P.M.~Zutphen, L.F.M. van. 19
Baumgardner, D.J.~Campa, M.J.~Ferguson, B.~Hodges, A.W.~Dewsbury, D.A. 21
Beamer, J.L. 295
Bean-Knudsen, D.E. 327
Beilharz, R.G. 320
Bell, A.E. 190
Bell, D.J. 101
Beltran, F.D. 272
Benhar, E. 326
Bennett, B.T.~Collins, W.E.~Beluhan, F.Z. 231
Bernard, K.W. 248
Berzins, R.~Coutts, R.T.~Secord, D.C.~Tam, Y.K. 55
Besch-Williford, C.~Raisbeck, M.F.~Wagner, J.E.~McLaughlin, R.M. 230
Besch, E.L. 75, 110
Beynen, A.C. 19
Bhatt, P.N.~Barthold, S.W.~Cameron, G.A.~Simack, P.A. 103
Bird, D.M. 122
BISNA. 52
BJNUAV. 227
Black, H.S. 67, 193
Blackshaw, J.K. 116
Bowman, T.A.~Lang, C.M. 191
Box, H.O. 196
Bray, G.C. 101
Brede, H.D. 156
Britz, W.E. Jr. 211
Brosseau, L.D.~Giles, A.R.~Greenwood, R.~Greenwood, P.~Hoogendoorn, H. 27
Brown, R.H. 144
Bruhin, H. 243
Bulfield, G. 133
Burke, T.J. 128
Bustad, L.K. 177
Calhoun, J.B. 22
Calland, C.J. 115
Campbell, S.A. 292
Carbonell, C. 263
Caruba, A. 166
Casebolt, D.B. 239
Castro, C.E.~Ota, D.M. 215
Cebul, M.S. 259
Chamove, A.S. 74
Chandler, J.L. 313
Chapman, J.E. 257
Chapman, L.L. 114
Cisar, C.F.~Miller, J.G.~Simmonds, R.C. 323
Cisar, C.F.~Miller, J.G.~Simmonds, R.C.~Alvares, A.P.~Ueng, T.H. 98
CJZOAG. 95
Clarke, A.S. 167
Cleveland, J. 289
Clifford, D.H. 278, 279
Clough, G. 151, 185
Collins, B.R. 56
Conning, D.M. 123
Conway, P. 90
Cooksey, L.M. 42
Coons, D. 7
Cords, M. 203
Csanady, E.R. 212
Cummings, J.F. 104
Dagnaes-Hansen, F. 17
Damon, E.G. 93
Davey, R.B. 42
Davies, K. 59, 293
Davys, J.S. 36
Dawson, W.W. 271
Deeg, H.J.~Raff, R.F.~Storb, R. 158
Deitrich, E.A. 65
Dewsbury, D.A. 89
Diamond, E.J.~Hazelton, J.~Wiebe, R.H.~Abee, C.R. 246
Doepel, F.M. 193
Donelly, H. 303
Doyle, D.W. 324
Dukelow, W.R. 267
Dushkin, V.A. 296
Eidson, A.F.~Hobbs, C.H.~Hahn, F.F. 93
Elliott, P.~Moynier, B. 268
Else, J.G. 106
Elwell, M.R.~Tingpalapong, M.~Pomsdhit, J. 321
Epstein, M.A.~Terlecki, A.J.~Underwood, S.J. 256
Ernst, A. 165
Eveleigh, J.R. 82
Everitt, J.I. 226, 317
EVHPA. 264
Fadem, B.H. 266
Fallon, M.T. 161
Farkas, M.J. 148
Ferguson, B. 89
Festing, M.F.W. 130, 131
Fine, J. 16
Fisk, S.K. 9
Flecknell, P.A. 200, 310
Fletch, A. 2
Fordham, J.P. 307
Fox, J.G. 150, 265
Fox, J.L. 52
Francis, L. 149
FVHFA. 203, 309
Gabert, H.F.~Toms, M.P.~Tressel, W.R.~Alexander, B.K.~Beyerstein, B.L. 318
Gamble, M.R. 185
Gamble, M.R. 209
Georgeson, S. 242
Gibson, S.V. 84, 230
Gigliotti, F.~Stokes, D.C. 73
Glodek, P. 38
Golarz de Bourne, M.N. 34
Goodwin, W.J. 308
Goosen, C. 78, 258
Gordon, E.R. 69
Gray-Schofield, L. 313
Green, Earl L.~Earl Leroy. 136
Green, K. 279
Green, K.A. 278
Green, Margaret C.~Beechey, C.V. 134
Grieve, A.P. 277
Grossie, V.B. Jr.~LBASA. 215

Gulden, W. van der~Rozemond, H.~Balner, H.~Bertens, A.~Boot, R.~Brinkert, J.~Dienske, H.~Janssen, G.~Lammers, A.~Timmermans, P. 258
Habeeb, P. 164
Haesemeyer, J. 7
Hahn, J. 228
Haigh, P.B. 53
Haines, R.J.~Bernal, J.C. 308
Hammer, J.G. 105
Hanninen, O.O. 220
Hansen, G. 284
Harkness, J.E. 250
Harrell, George T. 60
Hayden, C.C. 155
Heath, S.J. 20
Hedricks, C. 309
Heidbrink, G.A. 141
Heine, W. 229
Helo, J.R. 30
Henderson, F. 254
Herbert, J. 285
Hessler, J.R. 76
Hetherington, C.M. 219
Hird, D.W. 86
Hirsjarvi, P.A. 210
Hobbs, K.R. 63
Hoffer, W. 216
Hoffman, R.A. 164
Holden, C. 12, 25, 125
Holmes, D.D. 127
Hoof, J.A.P. van, 49
Hoover-Plow, J. 268
Horstman, V.G. 147, 295
Hradecky, J. 80
Hruban, V.~Hojny, J.~Pazdera, J.~Stanek, R. 80
Huang, T.M.~Lee, T.Y. 81
Hubrecht, R.C. 196
Hudson, C.A. 28
Hughes, H.C.~Griffin, H.E.~Land, M.S.~Mallon, F.M. 292
Hughes, H.C.~Singh, S.B.~Lang, C.M. 119
Hynard-Naylor, V. 59
Itoh, K. 58
Izard, M.K. 31, 201
JAVMA. 3
JCTBED. 133
Johnston-Arthur, T. 176
Joiner, G.N.~McFarland, A.R. 129
Jones, L.D. 325
JOPAA2. 42
Joubert, C.J. 245
Kahan, E. 163
Kamihira, M. 79
Kaplan, J.E. 139
Kaplan, J.R.~Manuck, S.B.~Ubersedar, B.~Larkin, K.T. 233
Keeley, A. 288
King, F.A. 51, 205
King, J.O.L. 100
King, N.E. 37
Kintner, B.A. 145
Kirkwood, J.K. 256
Klir, P. 188
Klokager, F. 213
Knauff, D.R. 13, 138
Knisley, S.B. 92
Knitter, G.H.~Smith, P.M.~Susor, T.G.~Schmitt, K. 3
Kolb, E.R. 162
Kraemer, H.C. 298
Kraus, D.B. 266
Krishkina, Valeria. 306
Kruijt, B.C. 113
KRUSE, R.H. 72
KTNYAB. 81
Kuester, J. 281
Kuhlhorn, F.~ASPUC. 301
Lacey, A. 39
Ladewig, J. 286
Ladiges, W.C. 158
Lane-Petter, W. 227
Lang, Carol Max. 60
Larsen, R.E. 154
Lavender, R.G. 102
LBANA. 11, 19, 28, 35, 39, 40, 43, 58, 63, 80, 87, 96, 100, 101, 120, 163, 165, 168, 175, 196, 204, 208, 210, 252, 254, 256, 258, 270, 277, 285, 291, 307, 310, 311, 319, 325, 326
LBASA. 1, 13, 15, 29, 32, 41, 73, 84, 85, 86, 93, 97, 98, 103, 106, 115, 129, 139, 158, 161, 167, 177, 191, 226, 230, 231, 233, 239, 246, 260, 263, 266, 268, 271, 286, 308, 317, 321, 327
Leard, B.L. 218
Lewin, L. 284
Lewis, L.L. 99
Lewis, W.H. 9
Lindsey, J.R. 15
Lindsey, J.R.~Cassell, G.H. 239
Line, S. 109
Lipman, N.S. 260
Lofgreen, P.E. Jr. 62
Lovell, D.P. 175
Macarthur, J.A.~Boulter, E.A.~Seamer, J.H.~Marston, J.H.~Chamove, A.S. 21
Mack, D. 312
Mans, A.M. 94
Markowitz, H. 109, 240
Mason, W.A.~Moberg, G.P. 167
McAdams, G. 67
McAnulty, P.~Ford, J.~Peters, P.W.J.~Tesh, J. 33
McCauley, P.~Holdsworth, G. 264
McClintock, M.K. 309
McConomy, M.~Wills, J.E. 221
McGinnis, P.R. 298
Mello, D.A. 35
Mercier, D. 208
Meyerson, B.J. 117
Millar, J.S. 95
Miller, B.~Ali, F. 105
Mitchell, G. 37
Mitsuoka, T.~Maejima, K.~Hiraga, C.~Nakano, K. 58
Miyagi, M. 57
Moody, K.D. 191
Moore, R.T.~Raymond, R.T.~Baskerville, A. 149
Moreland, A.F. 76
Moro, M. 224
Morris, K.D. 270
Morton, W.R. 3
Musser, T.K. 143, 162
Nace, G.W. 222
Naylor, V.H. 293
Needham, J.R. 209
Negishi, T. 300
Negishi, T.~Shiga, Y.~Nishiyama, F. 26
Neil, D.H. 154
Nevalainen, T. 182, 184
Newcomer, C.E.~Fox, J.G. 260
Nicklas, W. 168
Nikkels, R.J. 124
Novak, G.R. 305
O'Byrne, K.T. 270
O'Neill, P. 77, 108
Odberg, F.O. 291
Olovson, S.G. 87
Pakes, S.P.~Lai, W.C.~Lu, Y.S. 97
Panepinto, L.M. 192
Parham, G.L.~Winkler, W.G.~Helmick, C.G. 246

Paul, A. 281
Pelkonen, K.~Hanninen, O.~Katainen, J. 182
Pendry, A. 319
Pereira, M.E. 299
Pericin, C. 277
Perraud, J.~Stadler, J. 208
Peters, A.G. 237, 322
Petrie, B.F. 318
Phillips, R.J. 45
Pickering, C.E. 96
Pickering, R.G. 96
Poole, T.B. 23
Poole, Trevor B.~Robinson, Ruth.. 315
Porter, G. 39, 227
Portuesi, M.~Lowry, R.R. 126
Potkay, S. 224
Pribylova, M. 280
Prove, E. 235
Quimby, F.W.~Gilmartin, J.E.~Chapman, M.J.~Allen, L.M. 114
Quimby, F.W.~Greenhouse, D.D. 16
Rao, G.N. 15
Ratcliffe, B. 307
Ratnamohan, N. 198
Raynor, T.H. 120
Raynor, T.H.~LBASA. 324
Reng, J.E. 73
Reinhard, M.K.~Gray, B.M.~Davis, T.W.~Lindsey, J.R. 161
Revis, N.W. 264
Ricketts, T. 221
Ridley, M. 225
Riggs, R.J. 249
Robbins, D.O. 1
Roberts, K. 207
Roberts, R.C. 283
Roberts, S.C. 290
Rogers, D.W. 46
Rosen, M. 163
Roser, B. 285
Ross, P.W. 226
Ross, P.W.~Davis, T.W. 317
Roux, C.Z. 66
Rowan, A. 314
Ruys, T. 178
Sabourdy, M. 132
Sachser, N. 235
Savage, A.~McConnell, P.B. 32
Sawrey, D.K. 21
Schaefers, F.F. 217
Scharmann, W. 43
Scher, S. 287
Schlingmann, F. 214
Schmitt, K.M. 135
Schofield, L.D. 231
Scholtz, M.M. 66
Schramm, B. 121
SCIEA. 12, 25, 51, 125
Scullion, F.T. 157
Seamer, J.H.~Wood, Margery. 273
Seamer, J.H. 71
Searle, J.B. 40
Sedlacek, R.S. 68
Semple-Rowland, S.L. 271
Semple, H.A. 55
Shapiro, J. 275
Shapiro, J.H. 276
Shields, R.P. 121
Shiga, Y.~Negishi, T. 79
Shiga, Y.~Shigemitsu, T.~Endo, D.~Nishiyama, F. 300
Shigemitsu, T. 26
Shinjo, A. 57
Sigg, H. 232
Silverman, H. 29
Silverman, J. 153
Simmons, M.L. 223, 316
Simons, E.L. 31, 201
Skjervold, H. 5
Skoglund, E. 262
Slater, J.G. 143
Smith, D.G. 282
Smith, M.W. 180
Snowdon, C.T. 32, 289
Soave, O. 159
Sobotka, T.J. 144
Solleveld, H.A. 33
Spencer, A.J. 85
Spiegel, Arnold. 189
Spiegle, M.S.~Keeley, A. Edney, A.T.B.~Briggs,k H.~Anderson, R.S.~Long, S. 197
Spinelli, J.S. 240
Stark, D.M. 102
Stein, S. 145
Stern, B.R. 282
Stevens, J.D. 275
Stevenson, M.F. 44
Stone, J. 253
Stribrny, K. 286
Suit, H.D.~Rose, E.F. 68
Sumner-Smith, G. 197
Sung, Y.Y. 81
Sutherland, S.D. 252
Svoboda, T.~Klir, P. 280
Tamborini, P. 232
Tarara, R.~Suleman, M.A.~Eley, R.M. 106
Tenney, J.B.~Perry, F.W.~Caldwell, F.L. 46
Threadgill, D.A.L. 95
Tinlin, S.J. 27
Totman, P.~Bigelow, S.W.~Nebert, D.W.~Hoffman, H.A.~Greig, J.B.~Festing, M.F.W. 175
Tufts, N.R. 159
Turanitz, K.~Stehlik, G.~Binder, W. 176
Turner, J.W. Jr. 263
Turner, M.K.~Paro, L.L.~Millsap, B.B. 211
Tuttle, Margaret Wheaton. 70
Valiano, T.U. 210
VandeBerg, J.L. 137
Vanderlip, J.E. 112
Vanderlip, S.L. 112
VETRAX. 140
Vondruska, J.F. 160
VSCOD. 198
Waaij, D. van der.~Zemmouchi, L.~Spaans, J. 83
Waggie, K.S.~Wagner, J.E.~Ganaway, J.R. 84
Wagner, J.E. 327
Wakasugi, N.~Sakakibara, A.~Tomita, T. 261
Wallace, M.E. 28, 294
Waller, T. 111
Ward, G.M. 247
Ward, G.S. 321
WEDUM, A.G. 72
Weichbrod, R.H. 98, 323
Weihe, W.H. 152
Weir, E.C. 103
Weisbroth, S.H. 179
Weisbroth, S.P. 179
Weiser, D.L. 325
Weiss, J. 165
Welshman, M.D. 199
Welshman, M.D.~Nazareno, J.B.~Resuello, R.G. 63
Wemelsfelder, F. 6
White, E.L.~Cheplen, J.M.~Sherrill, J.M.~Hamm, T.E. Jr. 120
White, W.J. 107
White, W.J.~LBASA. 94, 119
Wightman, S.R.~Neal, S.B. 115

Williams, C.S.F. 146
Williams, E.R. 18
Williams, L.E. 41
Wilson, M.S. 244
Windle, D.W. 302
Windle, Douglas W.,. 24
Wolff, D. 43
Wong, J.H. 10
Wood, M. 71
Wood, M.~Newton, C.M. 204
Woods, J.E. 8
Wootton, R. 11, 254, 310
Wu, D. 129
Yamazaki, K. 261
Yarbrough, C.J. 205
Younger, L.E. 29
Zarhy, M. 326
Zwartouw, H.T. 311
Zwick, H.~Leedy, M.~Stearns, G. 1
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